Mary Ann Stone
Verizon
19845 U.S. 31 North
Westfield, Indiana 46074

Dear Ms. Stone:

Re: Registered Construction and Operation Status,
003-14512-00319

The application from Verizon - Oakbrook Parkway, received on June 7, 2001, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1 or 326 IAC 2-5.5, it has been determined that the following emergency generators and duel fuel boilers, located at 6430 Oakbrook Parkway, Fort Wayne, Indiana, 46825, is classified as registered:

(a) One (1) diesel-powered emergency generator (EG-1) rated at 1,375 kilowatts operating no more than 500 hours per year and venting to the atmosphere.

(b) Three (3) diesel-powered emergency generators (EG-2 to EG-4) rated at 1,500 kilowatts (each) operating no more than 500 hours per year and venting to the atmosphere.

(c) Two (2) natural gas/distillate boilers rated at 0.81 MMBtu/hr (each) operating 8,760 hours per year venting to the atmosphere.

The following conditions shall be applicable:

Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuos opacity monitor in a six (6) hour period.

Pursuant to 326 IAC 6-2-4 (Emission Limitation for Facilities Specified in 326 IAC 6-2-1(d)), particulate emissions from indirect heating facilities shall be limited to 0.6 pounds of PM per MMBtu as the total boiler capacity is less than 10 MMBtu/hr.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.1-2(f)(3). The annual notice shall be submitted to:

Compliance Branch
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/RB

cc: File - Allen County
Allen County Health Department
Air Compliance - Jennifer Dorn
Permit Tracking - Janet Mobley
Technical Support and Modeling - Michele Boner
Compliance Branch - Karen Nowak

Registration

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3).

Company Name:	**Verizon - Oakbrook Parkway**
Address:	**6430 Oakbrook Parkway**
City:	**Fort Wayne, Indiana 46825**
Authorized individual:	**Mary Ann Stone**
Phone #:	**(317) 896-6605**
Registration #:	**003-14512-00319**

I hereby certify that Verizon - Oakbrook Parkway is still in operation and is in compliance with the requirements of Registration 003-14512-00319.

Name (typed):	
Title:	
Signature:	
Date:	

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Verizon - Oakbrook Parkway
Source Location:	6430 Oakbrook Parkway, Fort Wayne Indiana 46803
County:	Allen
SIC Code:	4813
Operation Permit No.:	003-14512-00319
Permit Reviewer:	ERG/RB

The Office of Air Quality (OAQ) has reviewed an application from Verizon - Oakbrook Parkway, relating to the construction and operation of an emergency generator and duel fuel boilers.

Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

(a) One (1) diesel-powered emergency generator (EG-1) rated at 1,375 kilowatts operating no more than 500 hours per year and venting to the atmosphere.

(b) Three (3) diesel-powered emergency generators (EG-2 to EG-4) rated at 1,500 kilowatts (each) operating no more than 500 hours per year and venting to the atmosphere.

(c) Two (2) natural gas/distillate boilers rated at 0.81 MMBtu/hr (each) operating 8,760 hours per year venting to the atmosphere.

New Emission Units and Pollution Control Equipment Receiving Prior Approval

There are no new construction activities included in this permit.

Existing Approvals

There are no existing permits - this approval represents the facilities first approval.

Enforcement Issue

(a) IDEM is aware that equipment has been constructed (and/or operated) prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled Unpermitted Emission Units and Pollution Control Equipment.

(b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on June 7, 2001, with additional information received on July 16, 2001.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (one page).

Potential To Emit Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)*
PM	0.6
PM-10	0.4
SO_2	6.1
VOC	0.5
CO	4.5
NO_x	17.1

*This assumes that each emergency generator is operating at a maximum of 500 hours per year.

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) all criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of criteria pollutants is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-6.1.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) NOx and SOx is greater than levels listed in 326 IAC 2-1.1-3(d)(1), therefore, the source is subject to the provisions of 326 IAC 2-5.5-1.

(d) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Allen County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year,

(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

(c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

(a) The two duel-fuel boilers are not subject to the New Source Performance Standards 326 IAC 12 (40 CFR Part 60, Subpart Dc - Standard for Small Industrial/Commercial/ Institutional Steam Generating) units as the boilers have a BTu rating less than 10 MMBtu/hr.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is located in Allen County and the potential to emit all criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of the emergency generator and duel-fuel boiler will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-2-4 (Emission Limitations for Facilities specified in 326 IAC 6-2-1(d))

(a) Particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu per hour (MmBtu/hr) heat input. The maximum operating capacity rating is defined as maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is conducted in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

Two boilers, used at Verizon were constructed in 1990 and have a maximum total source capacity of 1.6 MMBtu/hr, which is less than 10MMBtu, therefore, the pounds of particulate matter per MMBtu/hr shall not exceed 0.6.

For this facility, the boilers would have an allowable PM emission as 0.96 pounds of PM per hour. The PTE value for these boilers is 0.02 pounds of PM per hour, therefore, the facility is in compliance with this rule.

326 IAC 8-1-6 (New Facilities - General Reduction Requirement)

This source does not have potential VOC emissions equal to or greater than twenty five (25) tons per year, therefore this source is not subject to the provisions of 326 IAC 8-1-6.

Conclusion

The construction and operation of this emergency generator and duel-fuel boilers shall be subject to the conditions of the attached proposed Registration 003-14512-00319.

Appendix A: Emission Calculations
Summary of All Sources

Company Name: Verizon
Address City IN Zip: 6430 Oakbrook Parkway, Fort Wayne, Indiana 46806
CP#: 003-14512
Plt ID: 003-00319
Reviewer: ERG/RB
Date: August 8, 2001

	Pollutant					
Source	PM	PM10	SO2	NOx	VOC	CO
Emergency Generators	0.5	0.3	2.5	16.0	0.5	4.3
Boilers	0.1	0.1	3.6	1.0	0.0	0.3
Total	**0.6**	**0.4**	**6.1**	**17.0**	**0.5**	**4.6**

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
>600 HP

Company Name: **Verizon**
Address City IN Zip: **6430 Oakbrook Parkway, Fort Wayne, Indiana 46806**
CP#: **003-14512**
Plt ID: **003-00319**
Reviewer: **ERG/RB**
Date: **August 8, 2001**

Heat Input Capacity
MM Btu/hr

20.1

S= 0.5 = WEIGHT % SULFUR

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.1	0.0573	0.5 *(1.01S)*	3.2 **see below	0.1	0.85
Potential Emission in tons/yr	0.5	0.3	2.5	16.0	0.5	4.3

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
An average conversion factor of 1hp-hr = 7,000Btu is provided below.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil

Company Name: **Verizon**
Address, City IN Zip: **6430 Oakbrook Parkway, Fort Wayne, Indiana 46806**
CP: **003-14512**
Plt ID: **003-00319**
Reviewer: **ERG/RB**
Date: **August 8, 2001**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
1.62	101.365714	0.5

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	71 *(142.0S)*	20.0	0.34	5.0
Potential Emission in tons/yr	0.1	3.6	1.0	0.0	0.3

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: **Verizon**
Address, City IN Zip: **6430 Oakbrook Parkway, Fort Wayne, Indiana 46806**
CP: **003-14512**
Plt ID: **003-00319**
Reviewer: **ERG/RB**
Date: **August 8, 2001**

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Methodology

No data was available in AP-42 for organic HAPs.
Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton